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This *Journal*, founded by the Medical Society for the Study of the Venereal Diseases, publishes original work on the investigation and treatment of genitourinary and allied disorders, and review articles, correspondence, and abstracts.

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(3) **THE TITLE** of the paper should be as brief as possible.

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(5) **ONLY THE INSTITUTION(S)** where work was done by each author should be stated.

(6) **SI UNITS** must be used. If old fashioned units are used, SI units should be given in parentheses or, for tables and figures, a conversion factor given as a footnote.

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(8) **ACKNOWLEDGEMENTS** should be limited to workers whose courtesy or help extended beyond their paid work, and supporting organisations.

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Figure 1

**Case 1** A 34 year old cohabiting heavy goods vehicle driver presented with a one year history of an itchy growth on his penis which the patient initially mistook for a wart. (He had a past history of penile warts at the age of 16 years). The growth enlarged progressively and ultimately split the foreskin causing pain. On examination there was an indurated, ulcerated, mass on the glans penis and prepuce (fig. 1).

**Case 2** A 41 year old married company director gave a 2 month history of a rash on his penis which responded neither to clotrimazole cream nor hydrocortisone 1% cream. He was otherwise fit and healthy. On examination there was a marked balanoposthitis, and on the glans penis, there were areas of erythema, telangiectasia and depigmentation suggestive of lichen sclerosus. In addition, there was an indurated ulcer adjacent to the frenulum.

**Case 3** A 41 year old married heavy goods vehicle driver was seen complaining of penile discomfort and blood stained discharge from under this foreskin over the previous 6 weeks. The patient volunteered that his foreskin had always been tight but that

recently he had been unable to retract it at all. On examination there was a phimosis, with evidence of lichen sclerosus, and an indurated warty lesion on the area of visible glans.

**Case 4** A 48 year old unemployed married man had had difficulty in retracting his foreskin over the previous year. This had been associated with an offensive, occasionally blood stained discharge and dysuria. His general health had been good and there had been no weight loss. On examination there was a phimosis with an underlying ulcerated mass (fig 2). The glans penis and penile shaft were indurated and tender.

All the patients were referred to a consultant urologist and biopsy confirmed the diagnosis of squamous cell carcinoma of the penis in each case. All underwent surgery, with one lesion requiring total penectomy and radiotherapy.

It is interesting to speculate whether the incidence of penile malignancies in younger men is beginning to increase in parallel with the increase in vulval intraepithelial neoplasia in women, perhaps related to the increasing prevalence of HPV infection.

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1 Yoganathan K, Patel RN, Maitland N, McManus TJ, Calman FMB, Pozniak A. Carcinoma of the penis in a HIV positive patient. *Genitourin Med* 1995;71:41.

2 Office of Population Censuses and Surveys. Registrations, Series MBI, no. 22, HMSO, London.

Accepted for publication 27 April 1995.

## NOTICE

**State of the Art Issues in Genitourinary Medicine: a day on the interface between obstetrics, gynaecology and genitourinary medicine.**

30 November, 1995; 9.15 am–5.30 pm at the Chelsea (Hotel), Knightsbridge, London.

Contact: Carol Whitwill, AIDS Course Administrator, St Stephen's Centre, 369 Fulham Road, London SW10 9TH. Tel: 0181-746 8234.



Figure 2

## BOOK REVIEWS

All titles reviewed here are available from the BMJ Bookshop, PO Box 295, London WC1H 9TE. Prices include postage in the UK and for members of the British Forces Overseas, but overseas customers should add 15% to the value of the order for postage and packing. Payment can be made by cheque in sterling drawn on a UK bank, or by credit card (Mastercard, Visa, or American Express) stating card number, expiry data, and full name.

**An Atlas of Differential Diagnosis in HIV Disease. (The Encyclopedia of Visual Medicine Series).** By M C I Lipman, T A Gluck, M A Johnson. Parthenon Publishing Group. 1995. (Pp 139, £48) Carnforth, Lancs. ISBN 1-85070-474-0

This is really more than an atlas alone—its text gives a thorough and current account of various aspects of HIV, which, when combined with excellent illustration makes it a very informative read. It sets out to provide background to aid clinicians who have less experience of HIV infection and its manifestations, and as such fulfils its role well.

The introduction gives an up to date account of HIV infection and associated issues starting with acquisition and transmission of the virus and detailing cumulative numbers of HIV infected people on a world-wide scale. It stresses the importance of preventive measures in controlling world-wide spread of infection, and covers both the techniques and issues relating to HIV antibody testing. Much of the information is also represented graphically and diagrammatically, complementing the very readable text. This background information is followed by a description of presentation and follow up of an HIV infected patient—covering the natural history, monitoring, classification of disease and some symptom complexes.

Chapters cover: skin, respiratory, gastrointestinal, neurological, ocular, and malignant disease, and are followed by a limited bibliography subdivided by the same headings. The skin diseases are beautifully illustrated and common conditions covered in detail as well as some of the rarer manifestations (e.g. mycobacterial skin ulceration and bacillary angiomatosis) although candidal skin infection was missing. Much of the respiratory chapter is dedicated to the various manifestations of pneumocystis pneumonia, outlining its importance and changing presentation and incidence since the advent of primary prophylaxis. There are many X-ray and MRI illustrations together with corresponding microbiological appearances. This chapter also touches on cardiovascular involvement in HIV. Gastrointestinal manifestations also cover oral disease, wasting syndrome and highlights the likelihood of coexistent viral hepatitis. Both the neurological and ocular chapters are again well illustrated and case histories are given with the clinical pictures. Malignant disease focuses mainly on Kaposi's sarcoma with lymphoma and cervical intraepithelial neoplasia also pictured.

## CURRENT PUBLICATIONS

Selected titles from recent reports published worldwide are arranged in the following sections:

Gonorrhoea  
Chlamydia  
Candidiasis  
Bacterial vaginosis  
Pelvic inflammatory disease  
Syphilis and other treponematoses  
Hepatitis  
Herpes  
Human papillomavirus infection  
Cervical cytology and colposcopy  
Other sexually transmitted diseases  
Public health and social aspects  
Microbiology and Immunology  
Dermatology  
Miscellaneous

### Gonorrhoea

**Time required for elimination of *Neisseria gonorrhoeae* from the urogenital tract in men with symptomatic urethritis: comparison of oral and intramuscular single-dose therapy.**

J HAZLIP, SF ISBEY, HA HAMILTON, *et al.* *Sex Transm Dis* 1995;22:145.

**Increasing incidence of gonorrhoea—Minnesota, 1994.**

EA BELONGIA, J BESSERWIEK, J DEBOER, *et al.* *Arch Dermatol* 1995;131:645.

**Plasmid-mediated antimicrobial resistance in *Neisseria gonorrhoeae* in Kingston, Jamaica: 1990-1991.**

JS KNAPP, AR BRATHWAITE, A HINDS, W DUNCAN, RJ RICE. *Sex Transm Dis* 1995;22:155.

**Gonococcal abscess of the obturator internal muscle: use of new diagnostic tools may eliminate the need for surgical intervention.**

SG GURBANI, CT SHO, KR LEE, L POWELL. *Clin Infect Dis* 1995;20:1384.

**The sensitivity of 173 Sydney isolates of *Neisseria gonorrhoeae* to cefpodoxime and other antibiotics used to treat gonorrhoea.**

JW TAPSALL, EA PHILLIPS. *Pathology* 1995;27:64.

**Experimental human gonococcal urethritis: 250 *Neisseria gonorrhoeae* MS11mkC are infective.**

H SCHNEIDER, AS CROSS, RA KUSCHNER, *et al.* *J Infect Dis* 1995;172:180.

**Inflammatory cytokines produced in response to experimental human gonorrhoea.**

KH RAMSEY, H SCHNEIDER, AS CROSS, *et al.* *J Infect Dis* 1995;172:186.

**Interaction of the *Neisseria gonorrhoeae* PilA protein with the pilE promoter involves multiple sites on the DNA.**

CG ARVIDSON, M SO. *J Bacteriol* 1995;177:2497.

**Characterization of the pilF-pilD pilus-assembly locus of *Neisseria gonorrhoeae*.**

NE FREITAG, HS SEIFERT, M KOOMEY. *Mol Microbiol* 1995;16:575.

**A mutation in the *Neisseria gonorrhoeae* rfaD homolog results in altered lipooligosaccharide expression.**

ES DRAZEK, DC STEIN, CD DEAL. *J Bacteriol* 1995;177:2321.

**Organization of carbamoyl-phosphate synthase genes in *Neisseria gonorrhoeae* includes a large, variable intergenic sequence which is also present in other *neisseria* species.**

FS LAWSON, FM BILLOWES, JAR DILLON. *Microbiology* 1995;141:1183.

**A serum-positive, sialyltransferase-deficient mutant of *Neisseria gonorrhoeae* defective in conversion to serum resistance by CMP-NANA or blood cell extracts.**

J BRAMLEY, RD DEHORMAECHE, C CONSTANTINIDOU, *et al.* *Microbial Pathogen* 1995;18:187.

### Chlamydia

**New opportunities for chlamydia prevention: application of science to public health practice.**

S HILLIS, C BLACK, J NEWHALL, C WALSH, SL GROSECLOSE. *Sex Transm Dis* 1995;22:197.

**Positive serology for chlamydia: is it always for *Chlamydia trachomatis*?**

Z KATZ, R LEVY, S LURIE. *Gynecol Obstet Invest* 1995;39:271.

**Rapid antigen detection assay for identification of *Chlamydia trachomatis* infection.**

B VANDERPOL, JA WILLIAMS, RB JONES. *J Clin Microbiol* 1995;33:1920.

**Comparison of antigen detection, polymerase chain reaction and culture for detection of *Chlamydia trachomatis* in genital infection.**

PG HALLSWORTH, C HEFFORD, RG WADDELL, DL GORDON. *Pathology* 1995;27:168.

**Avidity of antibodies to *Chlamydia trachomatis* in infertile female patients.**

HM FREIDANK, B JUNG, A CLAD, W BREDT. *Med Microbiol Lett* 1995;4:124.

**Autoimmunity to spermatozoa, asymptomatic *Chlamydia trachomatis* genital tract infection and  $\gamma\delta$  T lymphocytes in seminal fluid from the male partners of couples with unexplained infertility.**

MG MUNOZ, SS WITKIN. *Hum Reprod* 1995;10:1070.

**A peptide of *Chlamydia trachomatis* shown to be a primary T-cell epitope in vivo induces cell-mediated immunity in vivo.**

SC KNIGHT, S IQBALL, C WOODS, A STAGG, ME WARD, M TUFFREY. *Immunology* 1995;85:8.

**Lipid metabolism in *Chlamydia trachomatis*-infected cells: directed trafficking of Golgi-derived sphingolipids to the chlamydia inclusion.**

T HACKSTADT, MA SCIDMORE, DD ROCKEY. *Proc Nat Acad Sci USA* 1995;92:4877.

### Candidiasis

**The impact of oral contraception on vulvovaginal candidiasis.**

A SPINILLO, E CAPUZZO, S NICOLA, F BALTARO, A FERRARI, A MONACO. *Contraception* 1995;51:293.

***Torulopsis glabrata* vaginitis.**

A SPINILLO, E CAPUZZO, TO EGBE, F BALTARO, S NICOLA, G PIAZZI. *Obstet Gynecol* 1995;85:993.

**Fluconazole: an update of its antimicrobial activity, pharmacokinetic properties and therapeutic use in vaginal candidiasis.**

CM PERRY, R WHITTINGTON, D MCTAVISH. *Drugs* 1995;49:984.

**Suppression of anti-candida activity of murine neutrophils by progesterone in vitro: a possible mechanism in pregnant women's vulnerability to vaginal candidiasis.**

T NOHMI, S ABE, K DOBASHI, S TANSO, H YAMAGUCHI. *Microbiol Immunol* 1995;39:405.

**Induction of candidal vaginitis in diabetic mice and attempts to prevent the infection.**

E SEGAL, A JOSEFLEV. *J Med Vet Mycology* 1995;33:1.

**Adherence of *Candida albicans* to host cells.**

ML PENDRAK, SA KLOTZ. *FEMS Microbiol Lett* 1995;129:103.

**Circulating CD4 and CD8 T cells have little impact on host defense against experimental vaginal candidiasis.**

PL FIDEL, ME LYNSE, JD SOBEL. *Infect Immun* 1995;63:2403.

**Rats clearing a vaginal infection by *Candida albicans* acquire specific, antibody-mediated resistance to vaginal reinfection.**

A CASSONE, M BOCCANERA, D ADRIANIN, G SANTONI, F DEBERNARDIS. *Infect Immun* 1995;63:2619.

**Vulvo-vaginal candidiasis associated with acitretin.**

MCJM STURKENBOOM, A MIDDELBEEK, LTWD VANDENBERG, PB VANDENBERG, BHC STRICKER, H WESSELING. *J Clin Epidemiol* 1995;48:991.

### Bacterial vaginosis

**Role of bacterial vaginosis in pelvic inflammatory disease.**

RL SWEET. *Clin Infect Dis* 1995;20:S271.

**The genital flora of women with intra-amniotic infection.**

MA KROHN, SL HILLIER, RP NUGENT, *et al.* *J Infect Dis* 1995;171:1475.

**The role of bacterial vaginosis and vaginal bacteria in amniotic fluid infection in women in preterm labor with intact fetal membranes.**

SL HILLIER, MA KROHN, E CASSEN, TR EASTERLING, LK RABE, DA ESCHENBACH. *Clin Infect Dis* 1995;20:S276.

**Absorption of clindamycin after intravaginal application of clindamycin phosphate 2% cream.**

MT BORIN, GW POWLEY, KR TACKWELL, DH BATTIS. *J Antimicrob Chemother* 1995;35:833.

### Pelvic inflammatory disease

**Clinical, laparoscopic and microbiological findings in acute salpingitis: report on a United Kingdom cohort.**

CD BEVAN, BJ JOHAL, G MUMTAZ, GL RIDGWAY, NC SIDDLE. *Br J Obstet Gynaecol* 1995;102:407.

**Ultrasonographically guided transvaginal aspiration of tuboovarian abscesses and pyosalpinges: an optional treatment for acute pelvic inflammatory disease.**

MA ABOULGHAR, RT MANSOUR, GI SEROUR. *Am J Obstet Gynecol* 1995;172:1501.

## Syphilis and other treponematoses

**Treponemal disease revisited: skeletal discriminators for yaws, bejel and venereal syphilis.**

BM ROTHSCHILD, C ROTHSCHILD. *Clin Infect Dis* 1995;20:1402.

**Syphilis serology among transvestite prostitutes attending an HIV unit in Rome, Italy.**

P GATTARI, D SPEZIALE, R GRILLO, *et al.* *Eur J Epidemiol* 1995;10:683.

**Rapid increase of syphilis and gonorrhoea in parts of the former USSR.**

T LINGLOF. *Sex Transm Dis* 1995;22:160.

**Syphilis and neurosyphilis in a human immunodeficiency virus type-1 seropositive population: evidence for frequent serologic relapse after therapy.**

JL MALONE, MR WALLACE, BB HENDRICK, *et al.* *Am J Med* 1995;99:55.

**Pathology of the umbilical cord in congenital syphilis: analysis of 25 specimens using histochemistry and immunofluorescent antibody to *Treponema pallidum*.**

DA SCHWARTZ, SA LARSEN, C BECKSAGUE, M FEARS, RJ RICE. *Hum Pathol* 1995;26:784.

**Essential syphilitic alopecia revisited.**

DW CUOZZO, PM BENSON, LC SPERLING, HG SKELTON. *J Am Acad Dermatol* 1995;32:840.

**Neurosyphilis or chronic heavy metal poisoning: Karen Blixen's lifelong disease.**

K WEISMANN. *Sex Transm Dis* 1995;22:137.

## Hepatitis

**Heterosexual activity as a risk factor for the transmission of hepatitis C virus.**

T UTSUMI, E HASHIMOTO, Y OKUMURA, *et al.* *J Med Virol* 1995;46:122.

**Risk factor exposure among hepatitis C virus RNA positive Swedish blood donors—the role of parenteral and sexual transmission.**

S SHEV, S HERMODSSON, A LINDHOLM, E MALM, A WIDELL, G NORKRANS. *Scand J Infect Dis* 1995;27:99.

**Prevalence of hepatitis B virus infection in Singapore men with sexually transmitted diseases and HIV infection: role of sexual transmission in a city state with intermediate HBV endemicity.**

BH HENG, KT GOH, R CHAN, SK CHEW, S DORAISINGHAM, GH QUEK. *J Epidemiol Community Health* 1995;49:309.

**Routine hepatitis B vaccination in a clinic for sexually transmitted diseases.**

HS WEINSTOCK, G BOLAN, JS MORAN, TA PETERMAN, L POLISH, AL REINGOLD. *Am J Public Health* 1995;85:846.

## Herpes

**Efficacy of traditional herbal medicines in combination with acyclovir against herpes simplex virus type 1 infection in vitro and in vivo.**

M KUROKAWA, T HIRABAYASHI, S UYAMA, *et al.* *Antiviral Res* 1995;27:19.

**Current issues in the management of genital herpes.**

SE BARTON. *Antivir Chem Chemother* 1995;6:3.

**Valaciclovir—a review of its potential in the management of genital herpes.**

RJ CROOKS. *Antivir Chem Chemother* 1995;6:39.

**Comparison of three monoclonal antibody-based enzyme immunoassays for detection of herpes simplex virus in clinical specimens.**

JP BRINKER, JE HERRMANN. *Eur J Clin Microbiol Infect Dis* 1995;14:314.

**A recombinant glycoprotein vaccine for herpes simplex type 2: safety and efficacy.**

AGM LANGENBERG, RL BURKE, SF ADAIR, *et al.* *Ann Int Med* 1995;122:889.

**Genetic immunization against herpes simplex virus—protection is mediated by CD4+ T lymphocytes.**

E MANICKAN, RJD ROUSE, ZY YU, WS WIRE, BT ROUSE. *J Immunol* 1995;155:259.

**Enhancement by TNF- $\alpha$  of reactivation and replication of latent herpes simplex virus from trigeminal ganglia of mice.**

I WALEV, J PODLECH, D FALKE. *Arch Virol* 1995;140:987.

## Human papillomavirus infection

**Cancer causes revisited: human papillomavirus and cervical neoplasia.**

EL FRANCO. *J Nat Cancer Inst* 1995;87:779.

**Sexual behaviour, sexually transmitted diseases and risk of cervical cancer.**

KM STONE, A ZAIDI, L ROSEROBIXBY, *et al.* *Epidemiology* 1995;6:409.

**Prevalence of human papillomavirus in cervical cancer: a worldwide perspective.**

FX BOSCH, MM MANOS, N MUNOZ, *et al.* *J Nat Cancer Inst* 1995;87:796.

**Current treatment strategies in the management of human papillomavirus infection**

*Am J Obstet Gynecol* 1995;172:1331 (whole issue).

**Incidence of venereal warts in human immunodeficiency virus-infected and uninfected women.**

KD CHIRGWIN, J FELDMAN, M AUGENBRAUN, S LANDESMAN, H MINKOFF. *J Infect Dis* 1995;172:235.

**Human papillomavirus testing in primary cervical screening**

J CUZICK, A AZAREWSKI, G TERRY, *et al.* *Lancet* 1995;345:1533.

**Can a test for E6/E7 transcripts of human papillomavirus type 16 serve as a diagnostic tool for the detection of micrometastasis in cervical cancer?**

J CZEGLEDY, C IOSIF, BG HANSSON, M EVANDER, L GERGELY, G WADELL. *Int J Cancer* 1995;64:211.

**Variation of human papillomavirus type 6 and HPV-11 genomes sampled throughout the world.**

PA HEINZEL, SY CHAN, L HO, *et al.* *J Clin Microbiol* 1995;33:1746.

**HPV prevalence in cytologically normal cervical scrapes of pregnant women as determined by PCR: the age-related pattern.**

AMD HUSMAN, JMM WALBOOMERS, E HOPMAN, *et al.* *J Med Virol* 1995;46:97.

**Multifocal vulvar intraepithelial neoplasia grade III and multicentric lower genital tract neoplasia is associated with transcriptionally active human papillomavirus.**

M VANBEURDEN, FJW TENKATE, HL SMITS, *et al.* *Cancer* 1995;75:2879.

**Comparative analysis of human papillomavirus detection by PCR and non-isotopic in situ hybridization.**

CS HERRINGTON, SM ANDERSON, HM BAUER, *et al.* *J Clin Pathol* 1995;48:415.

**Antibodies to human papillomavirus type 16 E7 related to clinicopathological data in patients with cervical carcinoma.**

MFD BAAY, JM DUK, MPM BURGER, *et al.* *J Clin Pathol* 1995;48:410.

**Immunohistochemical detection of p53 protein expression in HPV-induced condylo-ma acuminatum.**

Y TENDLER, Y SCHWARTZ, R RESHEF, SM SHASHA, V ROTTER, T SHKOLNIK. *Acta Dermatol Venereol* 1995;75:177.

**Relation of p53 tumor suppressor protein expression to human papillomavirus DNA and to cellular atypia in male genital warts and in premalignant lesions.**

A RANKI, J LASSUS, K NIEMI. *Acta Dermatol Venereol* 1995;75:180.

**Amplification of human papillomavirus types 16 and 18 in invasive cervical cancer.**

J BERUMEN, ER UNGER, L CASAS, P FIGUEROA. *Hum Pathol* 1995;26:676.

**Human papillomaviruses in 91 oral cancers from Indian betel quid chewers—high prevalence and multiplicity of infections.**

P BALARAM, KR NALINAKUMARI, E ABRAHAM, *et al.* *Int J Cancer* 1995;61:450.

**Use of human papillomavirus type 6 capsids to detect antibodies in people with genital warts.**

JJ CARTER, GC WIPF, ME HAGENSEE, *et al.* *J Infect Dis* 1995;172:11.

**Serologic response to human papillomavirus type 16 virus-like particles in HPV-16 DNA-positive invasive cervical cancer and cervical intraepithelial neoplasia grade III patients and controls from Colombia and Spain.**

B NONNENMACHER, NL HUBBERT, R KIRNBAUER, *et al.* *J Infect Dis* 1995;172:19.

**Development of human papillomavirus type 16 associated squamous cell carcinoma of the scrotum in a patient with Darier's disease treated with systemic isotretinoin.**

E ORIHUELA, SK TYRING, M POWSANG, *et al.* *J Urol* 1995;153:1940.

**A two-site enzyme immunoassay for quantitation of human papillomavirus type 16 particles.**

C EKLUND, J DILLNER. *J Virol Meth* 1995;53:11.

**Type-specific primer-mediated direct sequencing of consensus primer-generated PCR amplicons of human papilloma viruses: a new approach for the simultaneous detection of multiple viral type infections.**

PL RADY, I ARANY, TK HUGHES, SK TYRING. *J Virol Meth* 1995;53:245.

### Alterations in physical state and expression of human papillomavirus type 18 DNA following crisis and establishment of immortalized ectocervical cells.

M YOKOYAMA, Y NAKAO, XL YANG, *et al. Virus Res* 1995;37:139.

### The human papillomavirus-6 and HPV-16 E5 proteins co-operated with HPV-16 E7 in the transformation of primary rodent cells.

GF VALLE, L BANKS. *J Gen Virol* 1995;76:1239.

### Analysis and clinical implications of K-ras gene mutations and infection with human papillomavirus types 16 and 18 in primary adenocarcinoma of the uterine cervix.

P TENTI, S ROMAGNOLI, E SILINI, *et al. Int J Cancer* 1995;64:9.

### Combined oral carcinogenicity of HPV-16 and benzo(a)pyrene: an in vitro multistep carcinogenesis model.

NH PARK, CN GUJULUVA, JH BAEK, HM CHERICK, LH SHIN, BM MIN. *Oncogene* 1995;10:2145.

### Human papillomavirus in vulvar and vaginal carcinoma cell lines.

S HIETANEN, S GRENNAN, K SYRJANEN, *et al. Br J Cancer* 1995;72:134.

### Immunological responses in human papillomavirus 16 E6/E7-transgenic mice to E7 protein correlate with the presence of skin disease.

IH FRAZER, DM LEIPPE, LA DUNN, *et al. Cancer Res* 1995;55:2635.

### Differential sensitivities of E6 type-specific and L1 consensus primers in the detection of human papillomavirus in anal carcinoma.

AE NOFFSINGER, L SUZUK, YZ HUI, AA GAL, CM FENOGLIOPREISER. *Modern Pathol* 1995;8:509.

### Detection of genital human papillomavirus by single-tube nested PCR and type-specific oligonucleotide hybridization.

N YLITALO, T BERGSTROM, U GYLLENSTEIN. *J Clin Microbiol* 1995;33:1775.

### Application of the NASBA nucleic acid amplification method for the detection of human papillomavirus type 16 E6-E7 transcripts.

HL SMITS, B VANGEMEN, R SCHIKINK, *et al. J Virol Meth* 1995;54:75.

### Human papillomavirus type 16 capsids expose multiple type-restricted and type-common antigenic epitopes.

P HEINO, B SKYLDBERG, M LEHTINEN, *et al. J Gen Virol* 1995;76:1141.

### Binding and internalization of human papillomavirus type 33 virus-like particles by eukaryotic cells.

C VOLPERS, F UNCKELL, P SCHIRMACHER, RE STRECK, M SAPP. *J Virol* 1995;69:3258.

### Expression of the major capsid protein of human papillomavirus type 16 in *Escherichia coli*.

HA CUBIE, J GRZYBOWSKI, C DASILVA, L DUNCAN, T BROWN, MN SMITH. *J Virol Meth* 1995;53:75.

### Sequence determination of human papillomavirus type 6a and assembly of virus-like particles in *Saccharomyces cerevisiae*.

KJ HOFMANN, JC COOK, JG JOYCE, *et al. Virology* 1995;209:506.

### Human papillomavirus type 16 E5 protein affects cell-cell communication in an epithelial cell line.

I OELZE, J KARTENBECK, K CRUSIUS, A ALONSO. *J Virol* 1995;69:4489.

### Human skin fibroblasts induce anchorage-independent growth of HPV-16-DNA-immortalized cervical epithelial cells.

J ZHENG, A VAHERI. *Int J Cancer* 1995;61:658.

### A helper T-cell epitope of the E7 protein of human papillomavirus type 16 in BALB/c mice.

RJ VANDEBRIEL, M VANDERKOLK, L GEERSE, PA STEERENBERG, MRL KRUL. *Virus Res* 1995;37:13.

### Abrogation of p53 function by transfection of HPV16 E6 gene enhances the resistance of human diploid fibroblasts to ionizing radiation

NM TSANG, H NAGASAWA, CY LI, JB LITTLE. *Oncogene* 1995;10:2403.

### The enhancer in the long control region of human papillomavirus type 16 is up-regulated by PEF-1 and down-regulated by Oct-1

GJ SIBBET, S CUTHILL, MS CAMPO. *J Virol* 1995;69:4006.

### Expression of cytochrome P450 and microsomal epoxide hydrolase in cervical and oral epithelial cells immortalized by human papillomavirus type 16 E6/E7 genes.

FM FARIN, LG BIGLER, D ODA, JK MCDUGALL, CJ OMIECINSKI. *Carcinogenesis* 1995;16:1391.

### Cell cycle-dependent disruption of E2F-p107 complexes by human papillomavirus type 16 E7.

K ZERFASS, LM LEVY, C CREMONESI, F CICCOLINI, *et al. J Gen Virol* 1995;76:1815.

## Cervical cytology and colposcopy

### The 1993 British Society for Colposcopy and Cervical Pathology/National Coordinating Network Kingdom Colposcopy Survey—comparison with 1988 and the responses to introduction of guidelines.

HC KITCHENER, ME CRUIKSHANK, E FARMERY. *Br J Obstet Gynaecol* 1995;102:549.

### Cervical screening blues.

DCG SKEGG. *Lancet* 1995;345:1451.

### Detection rates for abnormal cervical smears: what are we screening for?

AE RAFFLE, B ALDEN, EFD MACKENZIE. *Lancet* 1995;345:1469.

### Dealing with the report of a mild dyskaryotic smear.

A FLETCHER. *Br J Obstet Gynaecol* 1995;102:517.

### Is cervical screening of teenagers worthwhile?

J OLAMIJULO. *Br J Obstet Gynaecol* 1995;102:515.

### Etiologies for non-correlating cervical cytologies and biopsies.

DM TRITZ, JA WEEKS, SE SPIRES, *et al. Am J Clin Pathol* 1995;103:594.

### Composition of cervical smears in patients with and without a cervical ectropion.

F BUNTINX, GGM ESSED, HWHM VANDERPUTTEN, *et al. J Clin Pathol* 1995;48:408.

### Duration of preclinical cervical cancer and reduction in incidence of invasive cancer following negative pap smears.

GJ VANOORTMARSEN, JDF HABBEMA. *Int J Epidemiol* 1995;24:300.

### Incidence of cervical smears indicating dysplasia among Austrian women during the 1980s.

C KAINZ, G GITSCH, H HEINZL, G BREITENECKER. *Br J Obstet Gynaecol* 1995;102:541.

### The screening histories of women with invasive cervical cancer, Connecticut.

DT JANERICH, O HADJIMICHAEL, PE SCHWARTZ, *et al. Am J Public Health* 1995;85:791.

### The value of Medicare statistics in monitoring Pap smear screening. Screening versus non-screening smears: the role of the laboratory.

C LAVERTY, J THURLOE, A FARNSWORTH. *Pathology* 1995;26:281.

### Computerized colposcopy: results of a pilot study and analysis of its clinical relevance.

PM CRISTOFORONI, D GERBALDO, A PERINO, R PICCOLI, FJ MONTZ, GL CAPITANO. *Obstet Gynecol* 1995;85:1011.

### Does colposcopy directed punch biopsy reduce the incidence of negative LLETZ?

LA DENNY, R SOETERS, K DEHAECK, B BLOCH. *Br J Obstet Gynaecol* 1995;102:545.

### Fertility and pregnancy outcome following large loop excision of the cervical transformation zone.

ME CRUIKSHANK, G FLANNELLY, DM CAMPBELL, HC KITCHENER. *Br J Obstet Gynaecol* 1995;102:467.

## Other sexually transmitted diseases

### Chancroid and *Haemophilus ducreyi*: an update.

DL TREES, SA MORSE. *Clin Microbiol Rev* 1995;8:357.

### Monoclonal antibodies against haemophilus lipopolysaccharides: clone DP8 specific for *Haemophilus ducreyi* and clone DH24 binding to lacto-N-neotetraose.

S BORRELLI, EL ROGGEN, D HENDRIKSEN, *et al. Infect Immun* 1995;63:2665.

## Public health and social aspects

### Video-based sexually transmitted disease patient education: its impact on condom acquisition.

LN O'DONNELL, AS DOVAL, R DURAN, C O'DONNELL. *Am J Public Health* 1995;85:817.

### Sexual behavior in the United States, 1930–1990: trends and methodological problems.

CF TURNER, RD DANELLA, SM ROGERS. *Sex Transm Dis* 1995;22:173.

### Can we get people to participate in a study of sexual behavior?

TA PETERMAN. *Sex Transm Dis* 1995;22:164.

### Reliability of sexual histories in heterosexual couples.

NS PADIAN, S ARAL, K VRANIZAN, G BOLAN. *Sex Transm Dis* 1995;22:169.

### Reliability of reports of sexual behavior: a study of married couples in rural west Africa.

E LAGARDE, C ENEL, G PISON. *Am J Epidemiol* 1995;141:1194.

## Microbiology and Immunology

### Anaerobes predominate among the vaginal microflora of prepubertal girls.

GB HILL, KK STCLAIRE, LT GUTMAN. *Clin Infect Dis* 1995;20:S269.

### The in-vitro susceptibilities of vaginal lactobacilli to four broad-spectrum antibiotics, as determined by the agar dilution and E test methods.

CM HERRA, MT CAFFERKEY, CT KEANE. *J Antimicrob Chemother* 1995;35:775.

### Induction of a secretory IgA response in the murine female urogenital tract by immunization of the lungs with liposome-supplemented viral subunit antigen.

A DEHAAN, KB RENEGAR, PA SMALL, J WILSCHUT. *Vaccine* 1995;13:613.

### Human herpesviruses 6 and 7 in cervixes of pregnant women.

T OKUNO, H OISHI, K HAYASHI, M NONOGAKI, K TANAKA, K YAMANISHI. *J Clin Microbiol* 1995;33:1968.

### *Corynebacterium glucoronolyticum* sp nov isolated from male patients with genitourinary infections.

G FUNKE, KA BERNARD, C BUCHER, GE PFYFFER, MD COLLINS. *Med Microbiol Lett* 1995;4:204.

## Dermatology

### Benign and premalignant disease of the vulva.

AB MACLEAN, WMN REID. *Br J Obstet Gynaecol* 1995;102:359.

### Carcinoma of the vulva in young women.

MJ MESSING, DG GALLUP. *Obstet Gynecol* 1995;86:51.

### Outpatient vulval biopsy—a note of caution.

RAF CRAWFORD, P TODD, C FISHER, DG LOWE, JH SHEPHERD. *Br J Obstet Gynaecol* 1995;102:487.

### Post-operative spindle cell nodule of the vulva.

CM MANSON, PJ HIRSCH, JD COYNE. *Histopathology* 1995;26:571.

### The treatment of scabies with ivermectin.

TK MEINKING, D TAPLIN, JL HERMIDA, R PARDO, FA KERDEL. *N Engl J Med* 1995;333:26.

### Painful ulcers of the scrotum—pyoderma gangrenosum.

LR BIGLER, ID FLINT, LS DAVIS. *Arch Dermatol* 1995;131:609.

### Mucocutaneous criteria for the diagnosis of Behçet's disease: an analysis of clinicopathologic data from multiple international centers.

JL JORIZZO, JL ABERNATHY, WL WHITE, et al. *J Am Acad Dermatol* 1995;32:968.

## Miscellaneous

### Uniting research communities to improve STD research—an introduction from the CDC and NIH.

H MILLER, S ARAL. *Sex Transm Dis* 1995;22:162.

### The fallibility of diagnostic tests for sexually transmitted diseases: the impact on behavioural and epidemiologic studies.

J SCHACHTER, JM CHOW. *Sex Transm Dis* 1995;22:191.

### Therapeutic algorithms for the management of sexually transmitted diseases at the peripheral level in Cote d'Ivoire: assessment of efficacy and cost.

G LARUCHE, F LOROUIGNON, N DIGBEU. *Bull World Health Org* 1995;73:305.

### New sexually transmitted diseases guidelines.

JN KRIEGER. *J Urol* 1995;154:209.

### Contraceptive services for teenagers: do we need family planning clinics?

MAK ALLABY. *BMJ* 1995;310:1641.

### Pregnant teenagers' knowledge and use of emergency contraception.

VAH PEARSON, MR OWEN, DR PHILLIPS, DJP GRAY, MN MARSHALL. *BMJ* 1995;310:1644.

### Diagnosis and treatment of vulvodynia.

J PAAVONEN. *Ann Med* 1995;27:175.

### Impotence (Editorial).

RJ KRANE. *J Urol* 1995;153:1841.

### The biologic significance of white blood cells in semen.

H WOLFF. *Fert Steril* 1995;63:1143.

### Outcome of the vaginal infections and prematurity study: results of a clinical trial of erythromycin among pregnant women colonized with group B streptococci.

MA KLEBANOFF, JA REGAN, AV RAO, et al. *Am J Obstet Gynecol* 1995;172:1540.

### The effects of topical indomethacin and clobetasol propionate on post-cryotherapy inflammation.

F HUMPHREYS, J SPIRO. *Br J Dermatol* 1995;132:762.

### Frequent use of menfegol spermicidal vaginal foaming tablets associated with a high incidence of genital lesions.

J GOEMAN, I NDOYE, LM SAKHO, et al. *J Infect Dis* 1995;171:1611.

### Vasculitis as the basis of cutaneous lesions in Reiter's disease.

CM MAGRO, AN CROWSON, R PEELING. *Hum Pathol* 1995;26:633.

### HLA-B27 binding of peptide from its own sequence and similar peptides from bacteria: implications for spondyloarthropathies.

RH SCOFIELD, B KURIEN, T GROSS, WL WARREN, JB HARLEY. *Lancet* 1995;345:1542.

### Mycoplasma pneumoniae and mycoplasma genitalium mixture in synovial fluid isolate.

JG TULLY, SL ROSE, JB BASEMAN, SF DALLO, AL LAZZELL, CP DAVIS. *J Clin Microbiol* 1995;33:1851.

### Long-term follow-up of treatment of Peyronie's disease with plaque incision, carbon dioxide laser ablation and placement of a deep dorsal vein patch graft.

ED KIM, KT MCVARY. *J Urol* 1995;153:1843.

### Circumferential Peyronie's disease involving both the corpora cavernosa.

T NARITA, H KUDO, K MATSUMOTO. *Pathol Int* 1995;45:383.

### Fournier's gangrene in a patient with erectile dysfunction following use of a mechanical erection aid device.

M THEISS, G HOFMOCKEL, HGW FROHMULLER. *J Urol* 1995;153:1921.

### Non-Hodgkin's lymphoma of the male urethra.

N RAJAN, D ALLMAN, B SCAGLIA, et al. *J Urol* 1995;153:1916.

### Schwannoma of the penis.

JS MAYERSAK, CJ VIVIANO, JW BABIARZ. *J Urol* 1995;153:1931.

### Trends in incidence of testicular cancer in boys and adolescent men.

H MOLLER, N JORGENSEN, D FORMAN. *Int J Cancer* 1995;61:761.